

IN THE CLAIMS:

1. (currently amended) Power supply equipment for a motor vehicle, comprising a motor generator, an inverter for driving said motor generator, a battery and a capacitor of an electrical double layer,

wherein said capacitor is directly connected to a DC side of said inverter and said battery is connected in parallel with said capacitor via first switching means for controlling an electrical connection between the battery and the capacitor.

2. (original) The power supply equipment for a motor vehicle according to claim 1, further comprising:

control means for turning off said first switching means in the start-up of an engine to separate said battery from said capacitor and for turning on said first switching means after the start-up of the engine to connect said battery to said capacitor.

3. (currently amended) ~~The power supply equipment for a motor vehicle according to claim 2,~~ Power supply equipment for a motor vehicle, comprising a motor generator, an inverter for driving said motor generator, a battery and a capacitor of an electrical double layer,

wherein said capacitor is directly connected to a DC side of said inverter and said battery is connected in parallel with said capacitor via first switching

means,

further comprising control means for turning off said first switching means in the start-up of an engine to separate said battery from said capacitor and for turning on said first switching means after the start-up of the engine to connect said battery to said capacitor, and

further comprising:

a series circuit of a resistor and second switching means being connected in parallel with said first switching means.

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4. (original) The power supply equipment for a motor vehicle according to claim 3, wherein:

said control means determines which of said first and second switching means should be turned on, depending on a difference in voltage between said capacitor and said battery when said battery and said capacitor are connected by said first or second switching means.

5. (original) The power supply equipment for a motor vehicle according to claim 1, further comprising:

a second capacitor connected in parallel with said first-mentioned capacitor between said inverter and said capacitor for eliminating high frequency ripples.

6. (currently amended) ~~The power supply equipment for a motor vehicle~~

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~~according to claim 1,~~ Power supply equipment for a motor vehicle, comprising a motor generator, an inverter for driving said motor generator, a battery and a capacitor of an electrical double layer,

wherein said capacitor is directly connected to a DC side of said inverter and said battery is connected in parallel with said capacitor via first switching means, and

wherein:

said first switching means comprises a diode conductible at all times so as to allow an electrical current to flow from said inverter to said battery.

7. (currently amended) ~~The power supply equipment for a motor vehicle according to claim 1,~~ Power supply equipment for a motor vehicle, comprising a motor generator, an inverter for driving said motor generator, a battery and a capacitor of an electrical double layer,

wherein said capacitor is directly connected to a DC side of said inverter and said battery is connected in parallel with said capacitor via first switching means, and

wherein:

said first switching means comprises a diode conductible at all times so as to allow an electrical current to flow from said battery to said inverter.

8. (original) Power supply equipment for a motor vehicle, comprising a motor generator, an inverter for driving said motor generator, a battery and a

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capacitor of an electrical double layer,

43 wherein said battery has a plurality of different (higher and lower) voltage terminals;

said capacitor being directly connected to a DC side of said inverter;

said capacitor being connected on its higher voltage side to a higher voltage terminal of said battery via first switching means; and

said capacitor being connected on its higher voltage side to a lower voltage terminal of said battery via second switching means.

9. (new) Power supply equipment for a motor vehicle, comprising:

a motor generator,

an inverter for driving said motor generator,

a battery,

44 a capacitor of an electrical double layer, and

an electric switch,

wherein said capacitor is directly connected to a DC side of said inverter and said battery is connected in parallel with said capacitor via the electrical switch, which electrical switch connects and disconnects the battery from the capacitor.
